

GGB Dump Truck Solutions

Dump trucks are essential in the construction, mining, and transportation industries, offering crucial support for efficient material handling and logistics. Also known as dumping trucks, dump trailers, dumper trailers, dump lorries, or simply dumpers, these vehicles are designed to transport materials such as dirt, gravel, demolition waste, and coal. They are distinguished by their open-box bed, hydraulic cylinder, and specialized tailgate opening, which facilitate the dumping of materials. Despite their various names and configurations, dump trucks share core features that make them highly specialized for transferring a wide range of materials. However, design engineers face several challenges with these heavy-duty machines, including managing extremely heavy loads that can lead to bed overloading, preventing unintended bed movement during maintenance or loading/unloading, addressing inadequate maintenance procedures, and dealing with hydraulic system failures.

Application Challenges

- Extremely heavy loads
- Corrosive environments
- Stick-slip operation
- Inadequate maintenance
- Hydraulic system failures
- Heavy wear and tear
- Long service time
- Increasing safety regulations



GGB Product Benefits



MAINTENANCE-FREE

GGB® bearings are self-lubricating, making them ideal for applications demanding extended bearing life without the need for continuous maintenance, as well as under operating conditions with inadequate or no lubrication.



SPACE SAVING

A slim, compact, one-piece design provides notable space and weight reductions, simplifying installation, reducing system costs, and minimizing the risk of potential damage during the installation process.



LOWER SYSTEM COST

Reduce ownership expenses with GGB's solutions, offering prolonged service life and minimized maintenance and lubrication requirements.



EXTENDED SERVICE LIFE

GGB bearings provide dependable performance under substantial loads and intense stress, enduring challenging and corrosive environments to prolong the service life of various applications.























ENVIRONMENTAL

Greaseless, lead-free GGB bearings comply with increasingly stringent environmental regulations such as the RoHS and WEEE directives restricting the use of hazardous substances in certain types of electrical and electronic equipment.



Recommended Products

PRODUCT	ADVANTAGES	MORE INFORMATION
DP4® 	DP4® offers low friction and good wear resistance in both dry and lubricated applications. Suitable for linear, oscillating and rotating movements.	
DP31 	DP31 is a lead-free metal-polymer hydrodynamic composite bearing that offers excellent low friction and wear resistance in lubricated applications. It provides superior flow erosion and cavitation resistance, along with high fatigue strength, making it ideal for demanding environments.	
DTS10® 	DTS10® is a lead-free metal-polymer bearing material designed for lubricated conditions, offering low friction and high wear resistance. It can be machined on-site for tight tolerances, making it ideal for precision applications.	
DX® 	DX® bearing material is ideal for marginally lubricated applications, delivering optimal performance under relatively high loads and low speeds.	
HI-EX® 	HI-EX® is a marginally lubricated bearing material with excellent wear resistance under thin film conditions. Available with non-indented overlay for hydrodynamic applications.	
HSG 	HSG is a self-lubricating bearing material with high static load capacity, excellent shock resistance, and superior friction and wear properties.	
GAR-MAX® 	GAR-MAX® is known for its high load capacity and excellent shock and misalignment resistance.	
EP® 	EP® provides good bearing performance in dry as well as lubricated or marginally lubricated working conditions. Good choice for medium working conditions compared to other engineered plastics materials.	
TriboShield® 	With the TriboShield® technology, GGB can reduce the friction and extend the durability of any complex shaped part by coating the substrate with our special designed low friction paints.	
TriboMate® 	Our TriboMate® technology is the pairing of a GGB bearing with a GGB polymer coating. The technology reduces significantly the static and dynamic friction, improves start and stop behaviors and increases load carrying capability	

Stronger. Together.

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